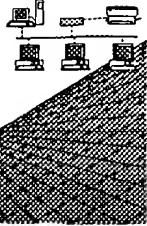


03C0

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/862,855F
Source: OPE
Date Processed by STIC: 5/29/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003

TIME: 14:42:35

Input Set : A:\EP.txt
 Output Set: N:\CRF4\05272003\I862855F.raw

3 <110> APPLICANT: Cai, Hong
 4 Keller, Richard
 5 Werner, James
 6 Goodwin, Peter
 8 <120> TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
 10 <130> FILE REFERENCE: S-94, 652
 12 <140> CURRENT APPLICATION NUMBER: US 09/862,855F
 C--> 13 <141> CURRENT FILING DATE: 2003-05-12 *The CRF software inserts alphabetical headings*
 15 <160> NUMBER OF SEQ ID NOS: 21 *Do NOT show alphabetical headings for*
 17 <170> SOFTWARE: PatentIn version 3.1 *in new sequence rules format.* *Does Not Comply clarity*
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 20
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Unknown
 W--> 23 <220> FEATURE: *Feature*:
 W--> 23 <220> FEATURE: *Feature*:
 24 <223> OTHER INFORMATION: 20-mer probe complementary to 20 base pair region of M13mp18
 target
 25 containing EcoR I restriction site
 27 <400> SEQUENCE: 1
 28 gctcgaaattc gtaatcatcg 20
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 18
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Unknown
 W--> 35 <220> FEATURE: *Feature*:
 W--> 35 <220> FEATURE: *Feature*:
 36 <223> OTHER INFORMATION: 18-mer probe complementary to 18 base pair region of M13mp18
 target
 37 containing Hind III restriction site
 39 <400> SEQUENCE: 2
 40 cagtgc当地 cttcgatg 18
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 97
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Unknown
 W--> 47 <220> FEATURE: *Feature*:
 W--> 47 <220> FEATURE: *Feature*:
 48 <223> OTHER INFORMATION: Synthetic chimera template derived from genes MLL(HRX, Htrx)
 and AF4(FEL)
 50 <400> SEQUENCE: 3
 51 gaagttccca aaaccactcc tagtgagccc aagaaaaagc agcctccacc accaaaacaa 60
 53 tatgatacat cttcaaaaac tcactcaa at tctcagc 97
 56 <210> SEQ ID NO: 4

57 <211> LENGTH: 27
58 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003
TIME: 14:42:35

Input Set : A:\EP.txt
Output Set: N:\CRF4\05272003\I862855F.raw

59 <213> ORGANISM: Unknown
W--> 60 <220> FEATURE: Feature:
W--> 60 <220> FEATURE: Feature:
61 <223> OTHER INFORMATION: DNA probe sequence complementary to MLL portion of SEQ ID NO:3
63 <400> SEQUENCE: 4
64 aaaaatttct tgggcttcac tagggag 27
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 29
69 <212> TYPE: DNA
70 <213> ORGANISM: Unknown
W--> 71 <220> FEATURE: Feature:
W--> 71 <220> FEATURE: Feature:
72 <223> OTHER INFORMATION: DNA probe sequence complementary to AF4 portion of SEQ ID NO:3
74 <400> SEQUENCE: 5
75 aaaaaaaattt gagtgagttt ttgaagatg 29
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 12
80 <212> TYPE: DNA
81 <213> ORGANISM: Unknown
W--> 82 <220> FEATURE: Feature:
W--> 82 <220> FEATURE: Feature:
83 <223> OTHER INFORMATION: PNA probe sequence for MLL portion of SEQ ID NO:3
85 <400> SEQUENCE: 6
86 ttcttgggc tc 12
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 12
91 <212> TYPE: DNA
92 <213> ORGANISM: Unknown
W--> 93 <220> FEATURE: Feature:
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94 <223> OTHER INFORMATION: PNA probe sequence for AF4 portion of SEQ ID NO:3
96 <400> SEQUENCE: 7
97 tttagtgag tt 12
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 12
102 <212> TYPE: DNA
103 <213> ORGANISM: Unknown
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105 <223> OTHER INFORMATION: LNA probe sequence for MLL portion of SEQ ID NO:3
107 <400> SEQUENCE: 8
108 ttcttgggc tc 12
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 12
113 <212> TYPE: DNA
114 <213> ORGANISM: Unknown
W--> 115 <220> FEATURE: Feature:
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116 <223> OTHER INFORMATION: LNA probe sequence for AF4 portion of SEQ ID NO:3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003
TIME: 14:42:35

Input Set : A:\EP.txt
Output Set: N:\CRF4\05272003\I862855F.raw

118 <400> SEQUENCE: 9
119 ttggagtga gtt
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 32
124 <212> TYPE: DNA
125 <213> ORGANISM: Unknown
W--> 126 <220> FEATURE: ~~Feature:~~
W--> 126 <220> FEATURE: ~~Feature:~~
127 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
128 variant for the HLA gene
130 <400> SEQUENCE: 10
131 tggcagctca gaccaccaag cacaagtggg ag
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 76
136 <212> TYPE: DNA
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W--> 138 <220> FEATURE: ~~Feature:~~
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139 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
140 variant for the HLA gene
142 <400> SEQUENCE: 11
143 gcggcccatg tggcgagca gttgagagcc tacctggagg gcacgtgcgt ggagtggctc
145 cgcagatacc tggaga
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 32
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151 <213> ORGANISM: Unknown
W--> 152 <220> FEATURE: ~~Feature:~~
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153 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
154 variant for the HLA gene
156 <400> SEQUENCE: 12
157 tggcagctca gaccaccaag cacaagtggg ag
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 76
162 <212> TYPE: DNA
163 <213> ORGANISM: Unknown
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165 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
166 variant for the HLA gene
168 <400> SEQUENCE: 13
169 gcggcccatg tggcgagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc
171 cgcagatacc tggaga
174 <210> SEQ ID NO: 14
175 <211> LENGTH: 32
176 <212> TYPE: DNA
177 <213> ORGANISM: Unknown
W--> 178 <220> FEATURE: ~~Feature:~~

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003
TIME: 14:42:35

Input Set : A:\EP.txt
Output Set: N:\CRF4\05272003\I862855F.raw

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179 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence

180 variant for the HLA gene
182 <400> SEQUENCE: 14
183 tggcagctca gaccacccaa gacaagtggg ag
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 76
188 <212> TYPE: DNA

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189 <213> ORGANISM: Unknown

W--> 190 <220> FEATURE: Feature:

W--> 190 <220> FEATURE: Feature:

191 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence

192 variant for the HLA gene
194 <400> SEQUENCE: 15
195 gcggcccatg tggcgaggca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc
197 cgcagataacc tggaga
200 <210> SEQ ID NO: 16
201 <211> LENGTH: 32
202 <212> TYPE: DNA

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76

203 <213> ORGANISM: Unknown

W--> 204 <220> FEATURE: Feature:

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205 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence

206 variant for the HLA gene
208 <400> SEQUENCE: 16
209 tggcagctca gaccacccaa ggcaagtggg ag
212 <210> SEQ ID NO: 17
213 <211> LENGTH: 76
214 <212> TYPE: DNA

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215 <213> ORGANISM: Unknown

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W--> 216 <220> FEATURE: Feature:

217 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence

218 variant for the HLA gene
220 <400> SEQUENCE: 17
221 gcggcccatg tggcgaggca gcagagagcc tacctggagg gcacgtgcgt ggacgggctc
223 cgcagataacc tggaga
226 <210> SEQ ID NO: 18
227 <211> LENGTH: 32
228 <212> TYPE: DNA

60

76

229 <213> ORGANISM: Unknown

W--> 230 <220> FEATURE: Feature:

W--> 230 <220> FEATURE: Feature:

231 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence

232 variant for the HLA gene
234 <400> SEQUENCE: 18
235 tggcagctca gaccacccaa ggcaagtggg ag
238 <210> SEQ ID NO: 19

32

239 <211> LENGTH: 76

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003
TIME: 14:42:35

Input Set : A:\EP.txt
Output Set: N:\CRF4\05272003\I862855F.raw

240 <212> TYPE: DNA
241 <213> ORGANISM: Unknown
W--> 242 <220> FEATURE: Feature
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243 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
244 variant for the HLA gene
246 <400> SEQUENCE: 19
247 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc 60
249 cgcagataacc tggaga 76
252 <210> SEQ ID NO: 20
253 <211> LENGTH: 32
254 <212> TYPE: DNA
255 <213> ORGANISM: Unknown
W--> 256 <220> FEATURE: Feature
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257 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
258 variant for the HLA gene
260 <400> SEQUENCE: 20
261 tggcagctca gaccacccaa ggcaagtggg ag 32
264 <210> SEQ ID NO: 21
265 <211> LENGTH: 76
266 <212> TYPE: DNA
267 <213> ORGANISM: Unknown
W--> 268 <220> FEATURE: Feature
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269 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a sequence
270 variant for the HLA gene
272 <400> SEQUENCE: 21
273 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc 60
275 cgcagataacc tggaga 76

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/862,855F

DATE: 05/27/2003
TIME: 14:42:36

Input Set : A:\EP.txt
Output Set: N:\CRF4\05272003\I862855F.raw

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L:23 M:283 W: Missing Blank Line separator, <220> field identifier
L:23 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:35 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:60 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:71 M:283 W: Missing Blank Line separator, <220> field identifier
L:71 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:82 M:283 W: Missing Blank Line separator, <220> field identifier
L:82 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:93 M:283 W: Missing Blank Line separator, <220> field identifier
L:93 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:104 M:283 W: Missing Blank Line separator, <220> field identifier
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L:115 M:283 W: Missing Blank Line separator, <220> field identifier
L:115 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:126 M:283 W: Missing Blank Line separator, <220> field identifier
L:126 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:138 M:283 W: Missing Blank Line separator, <220> field identifier
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L:164 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:178 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
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L:204 M:283 W: Missing Blank Line separator, <220> field identifier
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L:256 M:283 W: Missing Blank Line separator, <220> field identifier
L:256 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:268 M:283 W: Missing Blank Line separator, <220> field identifier
L:268 M:256 W: Invalid Numeric Header Field, <220> has non-blank data